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PATENT APPLICATION FEE DETERMINATION RECORD  
Effective January 1, 2003

Application or Docket Number

10658315

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	20	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	20 minus 20 =	
INDEPENDENT CLAIMS	14 minus 3 =	
MULTIPLE DEPENDENT CLAIM PRESENT		<input type="checkbox"/>

SMALL ENTITY TYPE	OTHER THAN SMALL ENTITY
RATE	FEES
BASIC FEE	375.00
X\$ 9=	
X42=	42
+140=	
TOTAL	417
OR	
RATE	FEES
BASIC FEE	750.00
X\$18=	
X84=	
+280=	
TOTAL	

\* If the difference in column 1 is less than zero, enter "0" in column 2

CLAIMS AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**
Independent	*	Minus	***
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SMALL ENTITY	OTHER THAN SMALL ENTITY
RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	
OR	
RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*		
Independent	*		
FIRST PRESENTATION OF MU			

SKIP	N
=	
=	
=	
=	
TOTAL ADDIT. FEE	
OR	
RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**
Independent	*	Minus	***
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE
X\$ 9=	
X42=	
+140=	
TOTAL ADDIT. FEE	
OR	
RATE	ADDITIONAL FEE
X\$18=	
X84=	
+280=	
TOTAL ADDIT. FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

15. A method of obtaining an agent that promotes retroviral integration into the genome of a mammalian cell, the method comprising:

selecting one substance that comprise RNA with nucleotide seq gene sequence, which is a ribozyme specific to RAD52 testing the test substance to promote retroviral integration into the mammalian cell, by providing a cell, into which a retrovirus is introduced, determining a change in retroviral integration into the genome of the mammalian cell compared with a control experiment, wherein an increase in retroviral integration compared with the control experiment is indicative of ability of the test substance to promote retroviral integration into the genome of a mammalian cell and said agent is thereby obtained.

16. A method according to claim 15 further comprising formulating the obtained agent into a composition comprising at least one additional component.

17. A method of inhibiting retroviral integration in a mammalian cell, the method comprising increasing mammalian RAD52 DNA-binding activity in the cell.

18. A method according to claim 17 comprising causing overexpression of mammalian RAD52 protein or a DNA-binding fragment thereof within the cell.

19. A method according to claim 18 comprising introducing into the cell nucleic acid encoding mammalian RAD52 protein or a DNA-binding fragment thereof.